Week 1 - Python basics and Numpy, Pandas

- **Python-** https://automatetheboringstuff.com/ (basics)
- Assignment- Copy of Python_Assignment_1.ipynb
- Google Colab Introduction For Machine Learning (Intro and setup)
- Google Colab Tutorial for Beginners | Get Started with Google Colab (Intro and setup)
- **NumPy-** https://www.w3schools.com/python/numpy/numpy_intro.asp
- Assignment- Copy of 01-Numpy Exercise.ipynb
- **Pandas-** https://www.w3schools.com/python/pandas/pandas_intro.asp
- Assignment- Copy of Pandas1.ipynb
- **Matplotlib-** https://www.w3schools.com/python/matplotlib_pyplot.asp
- Assignment- Copy of Exercise1.ipynb
- Copy of 01-Matplotlib Concepts Lecture.ipynb

Week 2 - *Introduction to ML AND CNN*

- **Train Test Split-** https://medium.com/@odeyemitemi23/train-test-split-in-machine-learning-cc0c02221e8b
- Working of CNNs
- Gradient Descent
- Must Read (Chap-4,5,7,8)
- CNN architectures
- For those comfortable with video resources

Additional material added later do take a look if you have time:

- For those comfortable with video resources
- Chapter 9, Conv. Nets

clustering - https://www.geeksforgeeks.org/clustering-in-machine-learning/

classification - https://keylabs.ai/blog/what-are-classification-models/

linear regression - https://www.javatpoint.com/linear-regression-in-machine-learning

Week 3 -Implementation of CNN,*Introduction to tensorflow*

- TensorFlow implementation of CNNs
- Video tutorial for TensorFlow

Additional Resources

clustering - https://www.geeksforgeeks.org/clustering-in-machine-learning/
classification - https://keylabs.ai/blog/what-are-classification-models/

linear regression - https://www.javatpoint.com/linear-regression-in-machine-learning